

## INTERNATIONAL SEARCH REPORT

 International application No.  
PCT/US99/20747

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :H04N 7/10

US CL :348/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 348/10, 7, 8, 9, 12, 13, 15, 16; 455/5.1, 6.3; 709/219

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,155,590 A (BEYERS. II et al) 13 OCTOBER 1992, WHOLE DOCUMENT.	1-5,7,9,10, 13,15-27, 32-34
Y	US 5,774,527 A (HANDELMAN et al) 30 JUNE 1998, WHOLE DOCUMENT.	1-5,7,9,10, 13,15-27,32-34
Y	US 5,646,688 A (HASHIMATO et al) 08 JULY 1997, col. 2, lines 21-27.	16-27,32-34
A,P	US 5,812,929 A (TSUTSUI et al) 22 SEPTEMBER 1998, ABSTRACT.	1-46 ----
A,P	US 5,966,636 A (CORRIGAN et al) 12 OCTOBER 1999, ABSTRACT.	1-46 ----

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*E* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

17 NOVEMBER 1999

Date of mailing of the international search report

02 FEB 2000

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,E	US 5,969,836 A (FOLTZER) 19 OCTOBER 1999, ABSTRACT.	1-46

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### B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

EAST, WEST

search terms: headend, service module, user, subscriber, authorized, telecommunication, digital, analog, DOCSIS, processing, channel formatting, scramble, descramble, encrypted, filter, modulate, demodulate, decoder